

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-28 (Canceled).

29 (Currently Amended). A catheter for use in a system for intraluminal treatment of a selected site in a body of a patient by at least one treating element comprising a hollow cylinder encapsulating a radioactive material and which is movable in the catheter by means of pressurized fluid, the catheter comprising:

a first elongated tube having a lumen closed to outside said catheter at its distal end and sized to slidably receive the treating element;

a second elongated tube in parallel relation to the first elongated tube and having a lumen open at its distal end and sized to receive a guidewire; and

a third elongated tube for receiving the first and second elongated tubes and defining a space between the third tube and the first and second tubes, the space comprising a fluid return lumen in fluid communication with an opening in the lumen of the first elongated tube at the distal end ~~thereof~~ of said first elongated tube, said space not opening to outside said catheter at the distal end thereof, wherein said third elongated tube is closed at the distal end.

30 (Currently Amended). A catheter for use in a system for intraluminal treatment of a selected site in a body of a patient by at least one treating element comprising a hollow cylinder encapsulating a radioactive material and which is movable in the catheter by means of pressurized fluid, the catheter comprising:

a first elongated tube having a lumen closed to outside said catheter at its distal end and sized to slidably receive the treating element;

a second elongated tube in parallel relation to the first elongated tube and having a lumen open at its distal end and sized to receive a guidewire; and

a third elongated tube for receiving the first and second elongated tubes and defining a space between the third tube and the first and second tubes, the space comprising a fluid return lumen in fluid communication with an opening in the lumen of the first elongated tube at the distal end ~~thereof~~ of said first elongated tube,

wherein said first elongated tube, said second elongated tube, and said third elongated tube are substantially the length of the catheter,

wherein said third elongated tube is closed at the distal end.

31 (Previously presented). The catheter of Claim 30 wherein said fluid return lumen is sealed to the outside of the catheter at the distal end thereof.

32 (Currently amended). The catheter of Claim 30 ~~further comprising a~~ wherein said treating element ~~which~~ is slidably received in the lumen of said first elongated tube for intraluminal treatment of a selected site in a body of a patient.